

MIMAI, Gh., asistent (Iasi); TOMA, C., asistent (Iasi)  
Some new plants in the ornamental flora of Moldavia.  
Natura Biologie 16 no. 1:74-76 Ja-F '64.

RUMANIA

MITRCIU, Dr. P.; Institute of Veterinary Research & Biological Preparations "Pasteur" in Rumania (Institutul de cercetari veterinare si biopreparate "Pasteur"); RIPEANU, Veterinary Physician M.; Central Control Laboratory of Veterinary Sanitation (Laboratorul central de control sanitari-veterinar); COMAN, Dr. E.; Regional Veterinary Laboratory in Braila (Laboratorul veterinar regional Braila); MARIAN, Dr. A.; Regional Veterinary Laboratory in Bucharest (Laboratorul veterinar regional Bucharest); and TOMA, Biologist C., Institute of Veterinary Research & Biological Preparations "Pasteur" (Institutul de cercetari veterinare si biopreparate "Pasteur")

"Some Observations on Stachybotryotoxicosis"

Bucharest, Revista de Zootehnica si Medicina Veterinara, Vol 16, No. 5, May 66; pp 76-82.

Abstract: Detailed mainly microbiological data on this relatively rare surface (oral-nasal mucoosa) mycosis of horses, caused by *Stachybotrys alternans*. 3 photographs of ulcers in sick animals. 7 photomicrographs; 2 Soviet and 4 Rumanian references.

IONESCU, Tudor, ing.; TOMA, D., ing.; IVAN, Gh., inginer-sef; GLOD,  
Gheorghe, ing.; STEFANESCU, Fl., ing.; ASANDEI, G., ing.;  
NEACSU, Ion, ing., laureat al Premiului de Stat

Our investigation. Constr Buc 16 no. 739:3 7 March '64.

1. Dispescer la Trustul de constructii mr.l, Bucuresti (for Toma).
2. Din serviciul de proiectare al Trustului de constructii nr.5, Brasov (for Glod).
3. Directorul Directiei mecanizarii, Directia generala constructiimontaj, din Ministerul Industriei Constructiilor (for Stefanescu).

TOMA, Dragos, ing.

Technical and scientific substantiation of the plow body type  
and plow corresponding to the 65 h.p. tractors. Mec electrif  
agric 9 no. 1: 17-37 '64.

TOMA, E.

Distr: 4E2c

Optical and electronographic investigation of gold-tin alloys precipitated by simultaneous evaporation in vacuum. E. Toma, I. Teodorescu, and G. Khollosh. *Rev. phys., Acad. rep. populară România* 4, 317-20 (1950) (in Russian).—The method of simultaneous evapn. allows one to obtain at once all concns. of the binary system. Intermetallic compds. can be detected in the 1st approx. by the optical method, esp. if they have a nonmetallic character. The optical method fails, however, if an alloy contains several intermetallic compds. In the Au-Sn system a good correspondence was found only for Au-Sn compds. When an alloy contains several intermetallic compds. the study of other binary alloys of the same type is necessary in order to correlate properties with structure. Electronographic study can then be undertaken.

A. Libacky

4-MJC(GD)

RUMANIA/Solid State Physics - Sintering  
 Abs Jour : Ref Zhur Fizika, No 2, 1960, 3576

Author : Toma, E., Teodorescu, I., Hollos, G.  
 Inst : Institute of Atomic Physics, Rumania

Title : Optical and Electron-Diffraction Investigation of  
 Alloys of Gold with Tin, Obtained by Simultaneous  
 Evaporation of the Components in Vacuum  
 Orig Pub : Studii si cercetari fiz., 1959, 10, No 1, 63-73

Abstract : By simultaneous evaporation in vacuum of gold and tin,  
 certain phases of the Au-Sn system have been obtained  
 and an attempt has been made of displaying them by opti-  
 cal means. The reflecting ability of the obtained inter-  
 metallic compounds and also of their mixtures in inter-  
 mediate transition zones, has been measured, in the visi-  
 ble portion of the spectrum ( $\lambda = 4500 - 6400 \text{ \AA}$ ).

Card 1/2

Card 2 APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R00175613000

- 38 -

BERLESCT, Elena; BADESCU, Maria; GEORGESCU, Gh.; TOMA, E.

Value of the Hamolsky test for the dynamic follow-up of thyroid  
 functional changes caused by sulfurous balneotherapy at the  
 Herculane spa. Stud. cercet. endocr. 15 no. 4:333-339 '64.

CIOBANU, Ch.; TOMA, E.

Contributions to the theory of light scattering by systems of particles.  
Studii cer.fiz. 10 no.4:825-836 '59. (EEAI 9:5)  
(Light) (Particles)

GRIGOROVICI, R.; GIOBANU, G.; TOMA, E.

A study on the diffusion of light over the thin granulated layers of  
silver. Studii cerc fiz 11 no.3:695-709 '60. (EEAI 10:2)  
(Light) (Silver)

SZEGLI, G.; TOMA, Ecaterina; STANICA, Ecaterina; STOIAN, Cecilia;  
GARTNER, Magda

Elimination of pyogenic substances from purified and concentrated  
antitoxic serums. Arch. roum. path. exp. microbiol. 21 no.1:163-170  
Mr '62.

1. Service de Biochimie Generale de l'Institut "Dr. I. Cantacuzino."  
(for Szegli, Toma). 2. Service de la Diphterie de l'Institut "Dr.  
I. Cantacuzino (for Stanica, Stoian). 3. Laboratoire Central pour  
le Controle d'Etat des Serums et des Vaccins-Bucarest de l'Institut  
"Dr. I. Cantacuzino (for Gartner).  
(TOXINS AND ANTITOXINS)

TOMA, Ecaterina; SZEGLI, G.; GARTNER, Magda; NEGUT, M.

Contribution to the study of the relation between serum  
properdin and pyrogenic substances from purified anti-  
toxic serums. Arch. Roum. path. exp. microbiol. 23 no.4:  
967-972 D '64.

1. Travail de l'Institut "Dr. I. Cantacuzino". Submitted  
June 26, 1964.

SZEGLI, G.; TOMA, Ecaterina; GARTNER, Magda

Contribution to the problem of determination of the degree of  
despeciation of purified antitoxic serums. Arch. roum. path.  
exp. microbiol. 23 no. 3:791-796 S'63

1. Institut "Dr. T. Cantacuzino": Service de Biochimie Generale  
et d'Immunochimie, Bucarest (for Szegli, Tomă) 2. Laboratoire pour le  
Contrôle d'Etat des Serums et des Vaccins, Bucarest (for Gartner).

Country	: Romania
Category	: Microbiology. Microbes Pathogenic For Man and Animals.
	Bacteria. Cocc.
Abs. Jour	: Ref Zhur-Biol., No 23, 1958, No 103806 and Clecner)
Author	: Soru, Eugenia; Toma, Ecaterina; Baldovin, Coralia; Dimitriu
Institut.	: Acad. RPR, medical section
Title	: Enzymatic Splitting of Arginine as a Criterion of Differentiation of Various Species of Streptococci. The Use of Paper Chromatography as a Method of Studying the Splitting of Arginine.
Orig. Pub.	: Bul.stiint.Acad.RPR, Sec.med., 1957, 9, No 1, 179-190
Abstract	: By means of the method of paper chromatography and chemical methods a study was made of the changes in arginine under the influence of <u>Streptococcus viridans</u> and <u>Streptococcus hemolyticus</u> , which were in the resting state. <u>S. viridans</u> did not produce any changes in arginine, whereas hemolytic streptococci split arginine to ornithine and ammonia by means of arginine dehydrazase. The hemolytic streptococci are divided into two groups by authors: representatives of one group form only ornithine and ammonia; those of the other, citrulline as well. In the latter case, the intensity of ornithine production is inversely proportional to the intensity of citrulline formation. The authors recommend the method
Card:	

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F-43

Country :	F
Category :	
Abs. Jour :	Ref Zhur-Biol., No 23, 1958, № 105803
Author :	
Institut. :	
Title :	
Orig Pub. :	
Abstract (Cont.)	: nation of viruses adsorbed by bacteria <sup>Y</sup> , which gives a positive result in 80.4 percent of cases. The author recommends this reaction as an auxiliar method for the diagnosis of <u>formes frustos</u> of scarlet fever and scarlet-fever anginas. Bibl. 28 titles.—V. V. Vlodavets.
Card:	2/2

TOMA, G.

"Some problems in the revision of forest planning. p. 13. (REVISTA  
PADURILOR, Vol. 70, no. 1, Jan. 1955. Bucuresti, Rumania.)

SO: Monthly List of East European Accessions, (EEAL), LC.  
Vol. 4, No. 5, May 1955. Uncl.

TOMA, G.

Building roads in forests. p.442, Vol 70, No. 10, Oct 1955,  
REVISTA PADURILOR, BUCURESTI, RUMANIA

SOURCE: East European Accessions List (EEAL) LC Vol 5, No 6, June 1956

CIRSTEA, D.; COJOCARU, I.; GACIU, C.; OGREZEANU, St.; STANCIU, V., ing.;  
TOMA, Gh., ing.

Investigations on the dynamic and thermal stability of trans-  
formers in case of an abrupt short circuit. Energetica Rum 13  
no.1:17-28 Ja '65.

1. Chief Engineer, "Electroputere" Plant (for Cirstea,  
Cojocaru, Gaciu, Ogrezeanu). 2. Head of the Transformer  
Technical Department, "Electroputere" Plant (for Toma). 3.  
Head of Homologation Department, M.I.C.M. (for Stanciu).

Submitted July 20, 1964.

TOMA, G.

AGRICULTURE

PERIODICAL: REVISTA PADURILOR. Vol. 73, no. 10, Oct. 1958

TOMA, G. Problems connected with thinning in Rumania. p. 589

Monthly List of East European Accessions (EEAI) LC Vol. 8, No 4  
April 1959, Unclass

NAZDRAVAN, Ilie, ing. (Craiova); TOMA, Gheorghe, ing. (Craiova);  
SARPE, Marius, ing. (Craiova); RADULESCU, Costin, ing. (Craiova)

Construction, technological, and manufacturing principles  
of the transformer unitary series with aluminum windings.  
reaching 1600 kva and 35 kv. Electrotehnica 10 no.12:441-  
449 D '62.

1. Uzinele "Electroputere", Craiova.

TOMA, G.

Simplified calculation of losses caused by felling of woods. p. 164.  
(Revista Padurilor, Vol. 71, No. 3, Mar. 1957, Bucuresti, Romania)

SO: Monthly List of East European Accessions (EMAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

TOMA, G.

Partial, representative, inventorying (cruising) of forest stands in the light  
of statistical mathematics. p. 387.

(REVISTA PADURILOR. Vol. 71, No. 6, June 1957. Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 10, October 1957. Uncl.

TOMA, G.

Better working conditions in cotton ginning stations; typical installations for dust extraction and pneumatic transportation of cotton fibers on ginning machines. p. 6. INDUSTRIA TEXTILA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerului Industriei Usoare) Bucuresti. Vol. 7, no. 1, Jan. 1956.

Sc., East European Accessions List Vol. 5, No. 9 September, 1956

ICRA, G.

Dorin Tudor's Elemente de calcul statistic pentru silvicultori (Elements of Statistical Calculation for Silviculturists); a book review. P. G.

ANALELE STIINTE-AGRICOLE. ROMANIA

Vol. 10, no. 3, May/June 1956

Romania

Source: EAST EUROPEAN LISTS

Vol. 5, no. 10

Oct. 1956

TOMA, G.

The influence of thinning on the development of forest stands, as reflected  
in the latest research. p. 520

REVISTA PADURILOR. (Asociata Stiintifica a Inginerilor si Technicienilor  
din Romania si Ministerul Agriculturii si Silviculturii) Bucuresti,  
Rumania. Vol. 73, no. 9, Sept. 1958

Monthly list of East European Accessions (EEAI) LC Vol 8, No. 6, June 1959  
Uncl.

TOMA, G.

"Research on the growth and productivity of stands of black locust, oak, and linden. p.23"  
"BULETIN STIINTIFIC, Vol. 4, no.1, Jan./ Mar. 1952. Bucarest, Rumania"

SO: Monthly List of East European Accessions, L.C. Vol.2, No. 11, Nov. 1953, Unvl.

RADULESCU, Costin (Craiova); TOMA, Gheorghe (Craiova); NAZDRAVAN, Ilie (Craiova)

Technical and economical premises considered in the manufacture  
of transformer series from 6,3 to 80 MVA and 110 kv., when using  
cold rolled sheet. Electrotehnica 11 no.4:125-136 Ap '63.

1. Colectiv de la uzinele Electropuțere, Craiova.

RUMANIA/Forestry - Forest Management.

K-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 2015<sup>4</sup>

Author : Toma, G.T.

Inst : -  
Title : Making an Inventory of Tree Stands Through Mathematical  
Statistical Representative Selections.

Orig Pub : Rev. padurilor, 1957, 71, No 6, 387-391

Abstract : No abstract.

Card 1/1

RUMANIA / Forestry. Forest Management.

K

Abs Jour: Ref Zhur-Biol., No 7, 1958, 29560.

Author : Toma, G. T.

Inst : Not given.

Title : Partial Inventory Methods in Rumania.  
(Sposoby chastichnoy inventarizatsii (Rumyniya)).

Orig Pub: Rev. padurilor, 1957, 71, No 8, 501-507.

Abstract: No abstract.

Card 1/1

COUNTRY : ROMANIA  
CATEGOY : Forestry. Forest Management.  
DATE, JOUR : RZBRIOL., No. 3 1959, No. 10772  
AUTHOR : Toma, G. T.  
SUBJ. TITLE : On Selective Management.  
CRWD. PUB. : Rev. padurilor, 1957, 71, No. 10, 622-626  
ABSTRACT : The characteristics of selective forest in comparison with the clear cutting system are described and measures securing the change-over to selective management are indicated. Methods of grading in a selective forest are set forth.

CARD: 1/1

-23-

Toma, G.T.

RUMANIA/Forestry - Forest Economy.

K-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10598

Author : Toma, G.T.

Inst : -

Title : Remarks on Rumanian Tables on Timber Reserves (of Forest Plantations)

Orig Pub : Rev. padurilor, 1957, 71, No 4, 236-240, 215, 216, 289, 290.

Abstract : No abstract.

Card 1/1

RUMANIA

FARCAS, N., Eng, of the Agronomic Institute (Institutul Agronomic), Cluj, TOMA, I., Eng, of the Prejmer State Farm (Gospodarirea Agricola de Stat Prejmer), and MURESAN, Elena, Eng, of the Codlea Selection Center (Centrul de Selectie Codlea).

"Hereditary and Morphological Productive Indices of Jersey Cattle of the Danish and English Type."

Bucharest, Revista de Zootehnice si Medicina Veterinara, Vol 16, No 10, Oct 66, pp 78-81.

**Abstract:** The authors tested the two types of Jerseys with regard to hereditary potential and morphologic characteristics specific to milk production. Both types had high hereditary indices of milk production; the English type provided larger quantities of milk but the Danish had milk with higher fat percentages, and was clearly superior in terms of over-all selection criteria. A strict correlation was found between origin, appearance, production and offspring testing data for both types.  
Includes 2 figures and 2 tables.

TOMA, I., dr.; CONSTANTINESCU, L., dr.; FRIDMAN, I., dr.; POTOLINCA, V.,  
dr. HARASIM, D., dr.

Acute poisoning with an insecto-fungicide in children (con-  
sidered in relation to 6 clinical cases). Pediatria (Bucur.)  
13 no.6:545-549 N-D '64

1. Lucrare efectuata in Sectia de pediatrie a Spitalului raional  
Falticeni (medic sef de sectie: dr. L. Constantinescu).

TOMA, ION  
SURNAME (in caps); Given Name

Country: Rumania

Academic Degrees:

Affiliation: -not given-

Source: Bucharest, Stiinta si Tehnica, No 7, Jul 1961, pp 36-37.

Data: "Modelling of Structures."

Authors:

TOMA, Ion, Engineer.  
ZAHAROVA, Tatiana, Engineer.

TOMA, I., ing. GHEORGHIU, E., ing.

From the experience of the Bucharest region in planning the  
internal organization of the land. Rev. geodezie 7 no.4:  
31-37 '63.

1. Vicepresedinte Al Consiliului agricol al regiunii Bucuresti  
(for Toma) 2. O.R.P.O.T. Bucuresti (for Gheorghiu).

TOMA, I., ing.

Avoiding losses resulting from transportation of crude oil and  
oil products through conduits. Petrol si gaze 13 no. 7:304-305  
Jl '62.

I. D.G.F.E.

TOMA, I.; IOVI, A.; GUSATU, N.

Obtaining double potassium sulfate and calcium fertilizer from  
indigenous potassium ore. Bul St si Tehn Tim 7:61-69 '62.

TOMA, I.; GETIA, V.; GUSATU, N.

A new method for obtaining black iron oxide by precipitation.  
Bul St si Tehn Tim 7:51-59 '62.

TOMA, I.

The pincer-type handbarrow for the conveyance of rails.

P. 494 (REVISTA CAILOR FERATE) (Bucuresti, Rumania) Vol. 5, no. 9, Sept. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

TOMA, Ioana, ing.; GIUGLEA, Aurelia, ing.

Methods for the determination of wool degradation. Ind text Run 13  
no. 3:105-112 Mr 62.

L 29783-66 EWP(c)/EWP(v)/EWP(j)/EWP(k)/EWP(h)/EWP(1) RM

ACC NR: AP6020884

SOURCE CODE: RU/0003/65/016/009/0419/0423

AUTHOR: Toma, I.; Craciunescu, V.; Babaita, Valeria

ORG: Faculty of Industrial Chemistry, Polytechnical Institute, Timisoara  
(Facultatea de Chimie Industriala, Institutul Politehnic)

3 2  
B

TITLE: Some observations regarding production capacity in the chemical industry

SOURCE: Revista de chimie, v. 16, no. 9, 1965, 419-423

TOPIC TAGS: chemical industry, industrial production

ABSTRACT:

The authors call attention to some peculiarities in the interpretation, calculation and analysis of the production capacity of the chemical industry arising from the complexity of the manufacturing processes involved, and show the dependence of this capacity on a number of variable factors. A method for the calculation and analysis of production in terms of such factors (for example, surface area involved in a reaction) is presented. Orig. art. has: 22 formulas and 1 table. [Based on authors' Eng. abstract]. [JPRS]

SUB CODE: 05, 07 / SUBM DATE: none / ORIG REF: 002

Card 1/1 1/

UDC: 66.012.42:338.062.13

ACC NR: AP6031210

SOURCE CODE: RU/0004/65/000/004/0151/0160

AUTHOR: Toma, Ioan (Lecturer); Craciunescu, Victor (Lecturer; Assistant Chief Project Services); Cocirla, Trandafir (Lecturer)

ORG: Polytechnic Institute, Timisoara (Institutul Politehnic); [Craciunescu] "Electromotor" Enterprise, Timisoara (Intreprinderea "Electromotor")

TITLE: Economic efficiency of the introduction of modern techniques in the manufacturing of micromotors at the 'Electromotor' Enterprise of Timisoara

SOURCE: Electrotehnica, no. 4, 1965, 151-160

TOPIC TAGS: electric motor, microelectronic component

ABSTRACT: The authors discuss the methodology of calculating the economic efficiency of the introduction of new techniques in terms of the possibilities of the means of production, and analyze in general terms the economic effects and efficiency of the introduction of new techniques in the manufacture of micromotors at the "Electromotor" enterprise. Orig. art. has: 14 figures and 5 tables. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 001

Card 1/1 af

UDC: 621.313.17:621.312.003.1 (498) EMT

09/8 2645

17.4410

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26.2181

S/594/29914  
61/000/000/002/011  
D234/D303

AUTHORS: Borovoy, V.Ya. and Toma, I.K. (Moscow)

TITLE: Melting losses of bodies in a stream of gas with high supersonic speed

SOURCE: Soveshchaniye po teplo- i massoobmenu. Minsk, 1961.  
Tezisy dokladov i soobshcheniy (Dopolneniya), 22-25

TEXT: The authors consider the problem of motion of the melt in a liquid boundary layer formed on the surface of an axially symmetric rigid body in a high-temperature gas stream, in absence of chemical reactions, evaporation and boiling and at given distribution of the coefficients of heat loss and friction. An approximate solution of the problem can be obtained by representing the components of velocity and the temperature of the melt in the form of quadratic trinomials of the normal coordinate  $y$ . The coefficient of interpolated trinomials are found from the conditions on the external and internal boundary of the liquid layer and from the equa- *X*

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29914  
S/594/61/000/000/002/011  
D234/D303

Melting losses of bodies...

tions of motion, of continuity and energy represented in an integral form. The inertial terms in the equation of motion are neglected as they are small in comparison with the terms referring to viscosity. In determining the mass of substance removed from a surface unit ( $m$ ), the temperature of the surface of the melt ( $T_0$ ) and the thickness of the layer of melt ( $\delta$ ) the following system of equations is obtained:

$$\begin{aligned} \frac{1}{3} \frac{M_2}{2 \pi r} \frac{dT_i}{dx} + mQ \left( 1 + \frac{1}{12} \frac{mc\delta}{\lambda} \right) - \frac{\lambda}{\delta} \times \\ \times (T_i - T_s) \left( 1 - \frac{1}{4} \frac{mc\delta}{\lambda} \right) = 0, \quad \checkmark \\ \frac{M_2}{2 \pi r} = \frac{\eta^2}{r} \left[ \frac{1}{2} \left( 1 + \frac{1}{3} \frac{\Delta \mu}{1 - \Delta \mu} \right) - \frac{1}{3} \delta \frac{\partial p}{\partial x} \right], \\ T_i = T_s + \frac{\delta}{2\lambda} (q + mQ). \end{aligned}$$

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D234 D303

Melting losses of bodies...

Here  $M$  is the flow of liquid at the point  $x$  ( $M = \int_0^x m 2\pi r dx$ );  $\lambda$ ,

$c$ ,  $v$  - heat conductivity, specific heat and viscosity of the melt;  
 $\tau$  - friction stress at the boundary of separation of liquid and gaseous phase;  $Q = i_* - i_\infty$  - melting heat, i.e. the difference between the specific heat content of the melt at melting temperature and specific heat content of solid phase at infinity,  $q$  - specific heat flow from the gas to the body (at the boundary of liquid and gaseous phase),  $\Delta\bar{\mu} = (\mu_0 - \mu_g)/\mu_*$  (the index \* refers to melting temperature, i.e. to the boundary of separation of liquid and gaseous phase; the index  $o$  to the surface of melt). Utilizing the Reynolds' analogy the following expression was obtained for the magnitude of  $\sigma$  in the vicinity of the critical point of the body:

$$\sigma = \sqrt{3 \frac{i_0 - i_\infty}{Q} \frac{v_i}{\frac{d\sigma}{dx}} \frac{1}{Pr^{2/3}} \frac{1 - \frac{1}{4} \frac{mc^2}{\lambda}}{1 + \frac{5}{12} \frac{mc^2}{\lambda}}}.$$

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Melting losses of bodies...

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S/594/61/000/000/002/011  
D234/D303

where  $\omega$  is the velocity of gas at the external boundary of gaseous boundary layer,  $i_0$ ,  $i_\delta$  - heat content of gas in the flow at braking temperature and at  $T = T_\delta$  respectively. Results of numerical analysis show that in melting losses of materials with large heat conductivity and small viscosity of the melt (e.g. metals) the thickness of the liquid layer and the temperature drop on both sides of the layer are very small. In melting of materials with small heat conductivity and large viscosity of the melt (e.g.  $\text{SiO}_2$ ) there is a considerable temperature drop on both sides of the liquid layer, and at comparatively small heat flows on the surface of the body the boiling temperature of the melt is reached. If the magnitude of specific heat flow towards the body is fixed, the specific heat content of the gas in the incident stream does not affect practically the quantity of substance which it carries away (as calculations have shown). In contrast to this, absolute dimensions of the body can sometimes affect essentially the quantity of melt carried away by the stream if the heat flow is fixed. [Abstracter's note: Complete translation.]

Card 4/4

CAPRIOARA, D., prof.; TONTE, E.; POP, E.; FANEA, E.; TOMA, L.; ROSENBERG, O.

Aspects of the staphylococcal infection of the newborn in the Cluj  
Gynecologic and Obstetric Clinic. Microbiologia (Bucur) 6 no.1:27-28  
Ja-F '61.

RUMANIA

UDC: 616.34-002.95:614.4

TOMA, L., Dr, and ALBU, I., Laboratory Assistant, of the MTTC [Ministerul Transporturilor si Telecomunicatiilor; Ministry of Transports and Telecommunications], Cluj, and CIOARA, I., Dr, of the Huedin Rail Traffic Line (Circulatie de linie, Huedin).

"Study of Infestation with Intestinal Parasites in Workers in a Stone Quarry."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 11, No 5, Sep-Oct 66, pp 407-411.

Abstract [Authors' English summary modified]: In a study of 168 workers in a stone quarry, the authors found 90 of them to be infested with intestinal parasites, namely Ascaris lumbricoides, Trichiurus trichiura, protozoa, Enterobius vermicularis, Strongyloides stercoralis (listed in order of frequency). One year after introduction of hygienic-sanitary education and treatment 62.33 percent of the cases were negative.

Includes 28 references, of which 13 Rumanian, 14 Russian and one French. -- Manuscript submitted 8 May 1964.

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IANCU, Axente, prof.; LUSTIG, T.; CHISU, A.; TOMA, L.

The long-sight prognosis of chorea minor. Rumanian M Rev. no.2:50-52  
Ap-Je '60.  
(CHOREA diagnosis)

GAZDAG, Jozsef; TOMA, Laszlo

Uniform training of collective farm deliveries of goods and  
the canning industry receivers of raw material. Konzerv  
paprika no.4:147-148 Jl-Ag '63.

1. Konzerv- es Paprikaipari Igazgatosag.

TOMA, M.; PASCAL, P.; CARAUSU, I.D.

Clathrus ruber Mich., ex. Pers., a new species in the mycologic  
flora of Rumania. Studii biol agr Iasi 13 no.1:25-28 '62.

TOMA, M., asist. univ. (Iasi)

Elder fungus (*Auricularia auricula* (Hook.) Underw.). Natura  
Biologie 17 no.1:75-76 Ja-F '65.

TOMA, M.C.

A new method for rapid serial determination of vitamin  $\beta$  in  
biological liquids and pharmaceutical solutions. Rev chimie  
Min petr 12 no.7:421 Jl '61.

TOMA, Magdalena, ing.

Skill and improvement of cadres. Constr Buc 16 no.736:4  
15 F<sup>r</sup>64.

TURENSCHI, E.; MITITELU, D.; PASCAL, P.; TOMA, M.; ZANOSCHI, V.

New contributions to the flora of Moldavia. Studii biol agr  
Iasi 14 no.2:269-273 '63.

TOMA, Mihai

Concerning the organization of socialist competition for the  
machine operators. Munca sindic 6 no.7:45-47 Jl '62.

1. Vicepresedinte al comitetului sindicatului Statiune de masini  
si tractoare "Eliza Stoenesti" reg. Bucuresti.

TOMA, Magdalena, ing.

A new section in prospect for the city of Cluj. Constr Buc  
16 no.745:1 18 Ap '64.

1. Subredactia voluntara de la Cluj.

TOMA, N.

The two stages.

P. 2 (COSTRUCTORUL) (Bucuresti, Romania) Vol. 9, No. 387 June 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5, 1957

TOMA, N.

Tiles, yes; bricks, no !

P. 2 (CONSTRUCTORUL) (Bucuresti, Rumania) Vol. 3, No. 389, June 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

TOMA, N., ing.

Market halls constructed by industrial methods. Constr Buc  
15 no.729 t3 28 D'63.

1. Seful santierului 101/l al Trustului nr.1, Bucuresti.

TOMA, Nicolae, ing.

Pneumatic shuttering, after the first application. Constr  
Buc 14 no. 673: 1; 1 December 1962.

1. Seful santierului F.R.B.F.-F.A.N.E.M. al Trustului nr.  
1, Bucuresti.

TOMA, N.

Public inspector for protection of labor. p. 4.

Vol. 7, no. 284, June 1955  
CONSTRUCTORUL  
Bucuresti, Romania

Source: East European Accession List. Library of Congress  
Vol. 5, No. 8, August 1956

TOMA, N.

Apprentices arrive for practice. p. 1  
Necessity for a change in activities of DGAD (General Direction for Supply and Distribution). p. 2

CONSTRUCTORUL, Bucuresti, Vol 8, No. 327, Apr., 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

TOMA, O.

Exhibitions of special items. Inform. biul. VDNKH no.8:19-22  
(MIRA 17:11)  
Ag '64.

1. Glavnnyy metodist pavil'ona "Energeticheskoye stroitel'stvo"  
na Vystavke dostizheniy narodnogo khozyystva SSSR.

STAVRACHE, M., dr.; MARTINCIUC, I., dr.; TOMA, O., dr.

False cyst of the pancreas in a 5-year-old child. *Pediatria*  
(Bucur) 14 no.2:157-160 Mr-Ap'65.

1. Lucrare efectuata in Sectia de chirurgie a Spitalului  
unificat, Focsani.

NOVIK-ZOLOTOVA, L.A., metodist; TOMA, O.

Exhibitions of special items. Inform. biul. VDNKh no.9:19-21  
S '64. (MIRA 17:12)

1. Pavil'on "Sanitarno-tekhnicheskoye stroitel'stvo na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Novik-Zolotova).
2. Glavnnyy metodist pavil'ona "Energeticheskoye stroitel'stvo" na vystavke dostizheniy narodnogo khozyaystva SSSR (for Toma).

MYSKOVA, N.M.; TOMA, O.F.; PECHKIN, K.P.; KHALEVSKAYA, S.I.;  
GOL'SKAYA, I.F.; NEPOROZHNIY, P.S., red.; NOVITSKIY, L.M.,  
nauchn. red.; GORDEYEV, P.A., red.; GOL'BERG, T.M., tekhn.  
red.

[Album of new construction equipment; recommended for use]  
Al'bom novoi stroitel'noi tekhniki, rekomenduemoi k vnedre-  
niyu. Moskva, Gosstroizdat. No.2. [Construction of power  
engineering structures. Electrical engineering structures]  
Energeticheskoe stroitel'stvo. Elektrotekhnicheskie raboty.  
1963. 111 p. (MIRA 16:10)  
(Power engineering) (Hydraulic structures)

ZAGAN,V., ing.; TOMA,P., ing.

Obtaining low temperatures in refrigerating plants based on absorption, a present problem in Rumania. Ind alim anim 11 no.3:68-73 Mr\*63

1. Atelierul termo-energetic, colectiv frig - Institutul de proiectare pentru industria chimica.

TOMA, R.; UNTERNAN, L.

Some contributions to the problem of obtaining an intermediary product with high yields in the process of extracting chlortetracycline. p. 103.

REVISTA DE CHIMIE. Bucuresti, Rumania. Vol. 10, no. 2, Feb. 1959.

Monthly List of East European Accessions. (EEAI), LC. Vol. 8, no. 9, Sept. 1959.  
Uncl.

TOMA, I.; TOMA, Valeria; TOME, R.; SRENGHE, Liliane

Present aspects in coccinolaryngologic mycoses. Romanian med.  
rev. 19 no.2:69-72 Ap-Je '69.

IVAN, I.M., prof.; TELNICEANU, A., dr.; MAGUREANU, E., dr.; TOMA, R., dr.; BORDEIANU, P., dr.; CALOMFIRESIU, AL., dr.; BARBU, A., dr.; MANOLESCU, Maria, chim.

Epidemiological aspects of inframicrobial epidemic hepatitis in the city of Bucharest in 1960. Med. inter., Bucur 13 no.5: 703-710 My '61.

1. Catedra de epidemiologie, I.M.F., Bucuresti (for Ivan, Telnicianu, Magureanu, Tomă). 2. Sanepidul central al Capitalei (for Bordeianu, Calomfirescu, Barbu, Manolescu).  
(HEPATITIS, INFECTIOUS statistics)

TCMA, Valeria, dr.; ZOMA, R., dr.; SBERIGHE, Liliana, dr.

Value and practical use of the ASIO test. Otorinolaringologie  
(Bucur.) 9 no.4:357-363 C-D '64

1. Lucrare efectuata in Clinica de otorinolaringologie, Bucuresti.

SPINU, I.; TELNICEANU, A.; SOLOMON, L.; HORZOGEA, Gita; BUSUIOC, Carmen;  
VASILIU, Cristina; IVAN, Xenia; POPESCU, P.; CAZACU, E.; TOMA, R.

Epidemiological considerations on occupational ornithologic infections.  
Stud. cercet. inframicrobiol. 15 no.1:15-20 '64.

FURDIK, Mikulas, prof., inz.; TOMA, Stefan, promovany chemik; DZURILLA, Milan, promovany chemik; SUCHY, Jan, inz., C.Sc.

Ferrocene derivates. Part 7 : Diels-Alder reaction of the ferrocenyl fulvene and its derivates with N-substituted maleic acid imides. Chem zvesti 16 no.10:719-740 0 '62.

1. Katedra organickej chemie a biochemie, Prirodovedecka fakulta Univerzity Komenskeho, Bratislava, Smeralova 2 (for Furdik, Toma and Dzurilla). 2. Oddelenie chemie prirodnych látok, Chemicky ustav, Slovenska akademia vied, Bratislava, Mlynske nivy 37 (for Suchy).

L 1640-66 EPF(c)/BIP(j) RM

ACCESSION NR: AP5024274

AUTHOR: Furdik, M. (Professor, Engineer)(Bratislava); Toma, S. (Toma, Sh.)  
(Graduate chemist)(Bratislava); Drurilla, M. (Graduate chemist)(Bratislava);  
Suchy, J. (Suký, Ya.) (Engineer, Candidate of sciences)(Bratislava)

TITLE: Derivatives of ferrocenes. (I). Contribution to the study of condensation  
of haloforms and chloral with some carbonyl derivatives of ferrocene

SOURCE: Časopis věd., no. 8, 1964, 607-613

TOPIC TAGS: condensation reaction, organiron compound

ABSTRACT: Aldolization reaction of haloforms with ferrocene aldehyde can take place; this reaction is obstructed by the steric structure when acetyl ferrocene or 1,1'-diacetyl ferrocene are introduced to the reaction. Aldolization reaction of chloral with acetyl ferrocene and with 1,1'-diacetyl ferrocene is discussed. The reaction of Chloral with cyclic penta dienyl groups produces a plastic material.  
Orig. art. has: 2 figures, 2 graphs.

Card 1/2

L 1640-66

ACCESSION NR: AP5024274

ASSOCIATION: *Hrdík, Tomáš, Dzurilla/ Katedra organickéj chemie a biochemie  
Prirodovedeckej fakulty University Komenskeho, Bratislava (Department of Organic  
Chemistry and Biochemistry, Faculty of Natural Sciences, Comenius University); 44-55  
Suchý/ Chemicky ustav Slovenskej akademie vied, Bratislava (Institute of Chemistry,  
Slovak Academy of Sciences)*

SUBMITTED: 15 Apr 64

ENCL: 00

SUB CODE: 00, 00

NR REF Sov: 001

OTHER: 007

JPRS

MC  
Card 2/2

L 45354-66 EWP(j) RM

ACC NR: AP6033601

SOURCE CODE: CZ/0043/66/000/001/0003/0017

AUTHOR: Furdik, M. (Professor; Engineer; Bratislava); Toma, S.—Toma, Sh. (Graduate  
chemist; Bratislava)

ORG: Department of Organic Chemistry and Biochemistry, Faculty of Natural Sciences,<sup>B</sup>  
<sup>117</sup>  
<sup>44</sup>  
Comenius University, Bratislava (Katedra organickej chemie a biochemie Prirodovedeckej  
fakulty Univerzity Komenskeho)

TITLE: Ferrocenes.<sup>1</sup> (XIV). A contribution to the synthesis of new substances by  
Michael addition starting from chalcones of cinnamoylferrocene type with active  
reactants

SOURCE: Chemicke zvesti, no. 1, 1966, 3-17

TOPIC TAGS: chemical synthesis, ferrocene, basic catalysis, cyclization, IR  
spectroscopy, UV spectroscopy

ABSTRACT: A basic-catalyzed Michael addition of p-chlorocinnamylferrocene and  
beta-ferrocenylacryloylbenzene with nitromethane, ethyl malonate, ethyl acetoacetate,  
cyanacetamide, ethyl cyanoacetate, acetylacetone, cyclopentanone, and fluorene  
was investigated. Under suitable reaction conditions good yields were obtained;  
in the past only low yields and negative results of such reactions were reported.  
An intramolecular aldol cyclization took place when ethyl acetoacetate or cyanacetamide  
were used; the final products of this reaction were enolates. The structure of  
these substances was determined by UV and IR spectra. The authors thank G. Blockinger  
and D. Stefkov, Chemistry Laboratory, Faculty of Natural Sciences, UK, for carrying

Card 1/2

0930 1033

L 45354-66

ACC NR: AP6033601

2

out the analysis; and Engineer M. Livar, Physical Chemistry Section, Research Institute for Agrochemical Technology, Bratislava, for taking the infrared spectra.

Orig. art. has: 5 figures and 4 tables. [Based on authors' Eng. abst.]  
[JPRS: 34,805]

SUB CODE: 07 / SUBM DATE: 10Aug65 / ORIG REF: 003 / OTH REF: 005

15  
Card 2/2

TOMA, S. EXCERPTA MEDICA Sec 4 Vol.11/9 Microbiology Dep 20

2325. CONTRIBUTION TO THE STUDY OF ANTI-TYPHO-PARATYPHOID VACCINES PREPARED FROM EXTRACTS ADSORBED ONTO A MINERAL COMPOUND. IV. A COMPARATIVE IMMUNOBIOLICAL STUDY OF THE TYPHO-PARATYPHOID ANTIGENIC EXTRACTS ADSORBED ONTO MINERAL SUPPORT - Contribution à l'étude des vaccins anti-typho-paratyphiques, obtenus à partir d'extraits microbiens adsorbés sur support minéral. IV. Etude immunobiologique comparative des extraits antigéniques typho-paratyphiques adsorbés sur support minéral - Toma S., Barber C., Soru E., Gritaenco V. and Bogokowsky B. Lab. de Biochim. Gén., Lab. de Vaccins T.A.B., Inst. Dr. I. Cantacuzène, Bucarest - C. R. SOC. BIOL. (Paris) 1957, 151/1 (50-51)

Extracts from typhoid and paratyphoid bacilli, viz. aqueous, hydrochloric-acid and trichloracetic-acid extracts, adsorbed onto aluminium hydroxide, alum and aluminium phosphate were used. From experiments with mice, guinea-pigs and rabbits, the conclusion is drawn that one injection of aqueous extracts adsorbed onto aluminium phosphate gives the same result as three injections of the usual bacterial vaccine.

Pondman - Groningen

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001756130003-5

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001756130003-5"

FURDIK, Mikulas, prof., inz.; TOMA, Stefan, promovany chemik; SUCHY, Jan, inz.,  
C.Sc.

On ferrocene drivates. Part 4: Derivates on the basis of the 1,1'-diacetylferrocenes; contribution to the examination of structure of heteroannular cycles. Chem zvesti 15 no.11/12:789-806 N-D '61.

1. Katedra organickej chemie a biochemie Prirodovedeckej fakulty University Komenskeho, Bratislava (for Furdik and Toma) 2. Oddeľenie chemie prirodných látok Chemickeho ustavu Slovenskej akademie vied, Bratislava (for Suchy). Authors' addresses: Bratislava, Smeralova 2 (for Furdik and Toma); Bratislava, Mlynske nivy 37, Chemicky ustav Slovenskej akademie vied (for Suchy).

5370024648  
Z/043/61/000/008/001/001  
D213/D303

AUTHORS: Furdík, Mikuláš, Professor, Engineer; Toma, Štefan,  
Chemist and Suchý, Ján, Engineer

TITLE: Ferrocene derivatives (III). Fulvene on the basis of  
monoacetyl - and diacetyl ferrocene

PERIODICAL: Chemické zvesti, no. 8, 1961, 547-553

TEXT: This article is a continuation of previous work by the  
authors (Ref. 1: M. Furdík, P. Elečko, S. Toma, J. Suchý, Chem.  
zvesti 14, 501, (1960)) and (Ref. 2: M. Furdík, Š. Toma, J. Suchý,  
P. Elečko, Chem. zvesti 15, 45, (1961)), and describes the produc-  
tion of fulvene on the basis of monoacetyl ferrocene and 1.1'-diace-  
tyl ferrocene as passive components of the reaction. Choosing the  
conditions for the reaction, both fulvenes, the  $\alpha$ -cyclopentadienyl-  
idenethylferrocene and the 1.1'-bis( $\alpha$ -cyclopentadienylidenethyl)  
- ferrocene were produced. To identify them infra-red absorption  
spectra were used. The appearance (coloring) of the two crystals  
was very similar, though the bis-derivative was the lighter; the

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24648  
Z/043/61/000/008/001/001  
D213/D303

Ferrocene derivatives (III)...

comparison of the absorption spectra in the visible region gave results as reproduced in Graph 3. The synthesis of acetylferrocene; newly distilled cyclopentadiene, ethylalcohol, and NaOH solution is then described. The total extraction is 78% of the theoretically possible ferrocene.

Analysis:

For  $C_{17}H_{16}Fe$  ( $M = 276.148$ )

Calculated      C = 73.93%    H = 5.85%    Fe = 20.22%

Obtained      C = 73.98%    H = 5.72%    Fe = 20.03%

1.1' bis - ferrocene: Into a mixer are added diacetylferrocene, newly distilled cyclopentadiene, ethylalcohol, and NaOH solution. The extraction amounts to 93.5% of the theoretically possible.

Analysis:

For  $C_{24}H_{22}Fe$  ( $M = 366.266$ )

Calculated      C = 78.69%    H = 6.06%    Fe = 15.25%

Obtained      C = 78.42%    H = 5.94%    Fe = 15.01%

Spectral analysis was done in oil suspension, using a Zeiss UR 10 instrument for the infrared part. The work in the visible spectrum

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Ferrocene derivatives (III)...

24648  
Z/043/61/000/008/001/001  
D213/D303

420 - 650 m $\mu$  was done with a Zeiss universal spectrophotometer, using ethylalcohol solution concentration  $5 \cdot 10^{-4}$  M/l. There are 4 figures and 5 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: P.L. Pauson, Am. Chem. Soc. 76, 2187 (1954)

ASSOCIATION: Katedra organickéj chémie a biochémie PFUK (Chair of Organic Chemistry and Biochemistry, Philosophical Faculty, Komensky University)

SUBMITTED: March 19, 1961

Card 3/4

FURDIK, Mikulas, prof., inz. (Bratislava, Smeralova 2); TOMA, Stefan  
(Bratislava, Smeralova 2); SUCHY, Jan, inz., C.Sc. (Bratislava,  
Mlynske nivy 37)

Ferrocene derivates (5). Aldol condensation of 1,1'-  
diacetylferrocene with aliphatic aldehydes. Chem zvesti 16  
no.6:449-457 Je '62.

1. Katedra organickej chemie a biochemie Prirodovedeckej  
fakulty Univerzity Komenskeho, Bratislava (for Furdik and  
Toma). 2. Ceskoslovenska akademie ved, Chemicky ustav  
Slovenskej akademie vied, Bratislava (for Suchy).

Z/043/63/000/001/001/004  
D287/D307

AUTHORS: Furdik, M., Toma, S. and Suchy, J.

TITLE: Ferrocene derivatives. VIII. Diels-Alder reaction of N-ferrocene maleinimide with dienes

PERIODICAL: Chemické Zvesti, no. 1, 1963, 21-29

TEXT: The present work is a continuation of an earlier investigation by the authors with the difference that they investigated the effect of the ferrocenyl group on the endo-exo isomerism of the dienophile-diene adducts. N-ferrocene-maleinimide was used as the dienophile, and was reacted with cyclopentadiene, dimethyl fulvene, ferrocenyl fulvene,  $\alpha$ -cyclopentadienylidene ferrocene, furan and  $\alpha$ -methylfuran. The Diels-Alder reactions were carried out in acetone under reflux, using equimolar quantities (10% excess for very volatile dienes). Only 1 isomer was separated in each case, i. e. the endo-isomer of the bicyclic adduct. The  $1110\text{ cm}^{-1}$  band assigned to mono-derivatives of ferrocene, and the  $800 - 900\text{ cm}^{-1}$  bands of

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Z/043/63/000/001/001/004

D287/D307

## Ferrocene derivatives ...

the aromatic nucleus could be observed in all spectra. The C-O group of the maleinimide appears as a strong band at 1710 to 1720  $\text{cm}^{-1}$  and as a weaker band shifted by approximately 60  $\text{cm}^{-1}$  towards the higher wavelengths. The intensity of this band is weak in N-ferrocenyl maleinimide, increases in cyclopentadiene and furan adducts and is considerably increased in derivatives of these adducts. The absorption maximum in the 615 - 645  $\text{cm}^{-1}$  region in the ir spectra of the adducts confirms the endo-isomers are formed. The listed bicyclic adducts formed have not hitherto been described in literature; they include: N-ferrocenylbicyclo-1,2,2-heptene-5-2,3-dicarboximide, N-ferrocenyl-7-dimethylmethylene bicyclo-1,2,2-heptene-5-2,3-dicarboximide, N-ferrocenyl-1,4-endoxo-cyclohexene-5-2,3-dicarboximide, N-ferrocenyl-1-methyl-1,4-endoxo-cyclohexene-5-2,3-dicarboximide, N-ferrocenyl-7-methyl-ferrocenylmethylene-bicyclo-1,2,2-heptene-5-2-3-dicarboximide. The ir spectra were measured with KBr pellets on an UR 10 Zeiss ir spectrophotometer. There are 4 figures and 1 table.

Card 2/3

Ferrocene derivatives ...

Z/043/63/000/001/001/004  
D287/D307

ASSOCIATION: Labótorium chemie Prirodovedeckej fakulty Univer-  
zity Komenského, Bratislava, CSAV, Chemický ústav  
Slovenskej akadémie vied, Fyzikalno-chemicke oddele-  
nie, Bratislava (Chemical Laboratory of the Depart-  
ment of Natural Sciences of the Komensky University,  
Bratislava, Czechoslovak AS, Institute of Chemistry  
of the Slovak Academy of Sciences, Department of  
Physical Chemistry, Bratislava)

SUBMITTED: July 13, 1962

Card 3/3

53750

24154  
Z/043/61/000/001/001/001  
D222/D302

AUTHORS : Furdík, M., Toma, Š., Suchý, J., and Elecko, P.

TITLE : Derivatives of ferrocene (II) and derivatives based on diacetylferrocene - A method for forming heteroannular rings

PERIODICAL : Chemické zvesti, no. 1, 1961, 45 - 62

TEXT : This paper is a continuation of the authors' studies on aldol condensation of monoacetylferrocene with aromatic aldehydes (Ref. 1: Chemické zvesti 14, 501 (1960)) and deals with the aldol condensation of diacetylferrocene with aromatic aldehydes and the influence exerted by the substituents and their position in the benzene nucleus of the aldehyde component. Special attention was paid to the question whether the second acetyl group condenses with another aldehyde molecule or causes intermolecular cyclization by the Michael addition on the double bond resulting from the aldol condensation of the first acetyl group. The diacetyl-

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24154  
Z/043/61/000/001/C01/C01  
D222/D302

Derivatives of ferrocene ...

ferrocene for the tests was prepared by Friedel-Crafts reaction of acetyl chloride with ferrocene under the catalytic influence of anhydrous aluminum chloride in CS<sub>2</sub>. The aldol condensation was performed in methyl alcohol in which the reaction products were dissolved in a ratio of 1 mol ferrocene to 2 mol aldehyde catalyzed by diluted NaOH added at 40 - 50°C. Aldehydes used in the condensation were benzaldehyde, piperonal, o-chlorobenzaldehyde, o-, m-, and p-nitrobenzaldehyde, and furfural. The obtained condensation products could be crystallized with the exception of those obtained by condensation with o-nitrobenzaldehyde which had an oily character. In most cases with the exception of nitrobenzaldehydes, the color of the condensation products was considerably less intense than that of the corresponding product obtained by monoacetylferrocene condensation and that of the initial diacetylferrocene itself. From the distinctive change of the color, it could be derived that the ethylenic double bond, originating by condensation on the first

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Z/043/61/000/001/001/001  
D222/D302

Derivatives of ferrocene ...

acetyl group, was saturated during the reaction, which could be effected either by an intramolecular Michael addition of the second intact acetyl group, or by intramolecular addition of the acetyl group of another diacetylferrocene molecule (Reaction scheme 2). By analysis of reaction products, especially of their infrared spectra, it could be determined that the Michael addition takes place during formation of a heteroannular 8-membered ring (including the Fe atom). It was thus ascertained that the condensation of diacetylferrocene with benzaldehyde, piperonal, o-chlorobenzaldehyde, furfural (and partially also with m-nitrobenzaldehyde) yields cyclic 1,1'-( $\alpha,\alpha'$ -diketo- $\beta$ -phenylpentamethylene) ferrocene or its derivatives respectively. Different products obtained by condensation with nitrobenzaldehydes showed an increase in color intensity. This led to the conclusion that the molecule conjugation increased considerably and that the Michael addition did not take place. This assumption was fully confirmed by the results of elementary

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D222/D302

Derivatives of ferrocene...

analysis and infrared spectra of obtained condensation products. The nitro group with its -I effect and -M effect paralyzed the influence of the carbonyl group, so that the neighboring ethylenic double bond was not sufficiently polarized to allow the Michael addition. The only reaction taking place was, therefore, aldol condensation and the originating products of the 1-acetyl-1'-cinnamoylferrocene type maintained their ethylenic double bond and their intact second acetyl group. The small amount of heteroannular rings originating with condensation with m-nitrobenzaldehyde can be attributed to the weaker electron-attracting effect of the m-nitro group. In conclusion the authors state that the tests listed in this paper prove that the aldol condensation of diacetylferrocene with benzaldehyde, piperonal, o-chlorobenzaldehyde, furfural, and partially also m-nitrobenzaldehyde is accompanied by the Michael addition which leads to the formation of heteroannular rings. This

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21154  
Z/043/61/000/001/001/001  
D222/D302

Derivatives of ferrocene ...

intermolecular Michael addition can be considered a new preparative method for heteroannular cyclic ferrocene derivatives. The authors give credit to M. Pavlovičová of the Laboratórium fyzikálnej chémie Oddelenia chémie prírodných látok Chemického ústavu SAV v Bratislave (Laboratory of Physical Chemistry, Department for Chemistry of Natural Products, Chemical Institute of the Slovak AS in Bratislava); Engineer C. Peciarov, Engineer K. Linekov and collaborators of the analytický laboratórium, Oddelenia chémie prírodných látok Chemického ústavu SAV v Bratislave (Analytical Laboratory, Department for Chemistry of Natural Products, Chemical Institute of the Slovak AS in Bratislava); and J. Krskov of the analyticky oddelenia Výzkumného ústavu agrochemickej technologie v Bratislave (Analytical Department of the Research Institute for Agrochemical Technology in Bratislava). There are 15 figures, 2 tables and 6 references: 1 Sovietbloc, 5 non-Soviet-bloc. The references to English-

Card 5/7

24154

Z/043/61/000/001/001/001  
D 222/D302

X

Derivatives of ferrocene ...

language publications reads as follows: P.L. Pauson: J. Am. Chem. Soc. 76, 2187 (1954); K.L. Rinehart, R.L. Curby: J. Am. Chem. Soc. 79, 3290 (1957).

ASSOCIATION: Katedra organickej chémie a biochémie Príroovedeckej fakulty Univerzity Komenského v Bratislave (Department, Organic Chemistry and Biochemistry at the Department for Natural Sciences of the Komensky University in Bratislava); Oddeľenie chemie prírodných látok Chemického ústavu Slovenskej akadémie vied v Bratislave (Department for Chemistry of Natural Products at the Chemical Institute of the Slovak AS in Bratislava)

SUBMITTED: March 3, 1960

Card 6/7

FURDIK, M.; IOMA, S.

On derivatives of ferrocene. Pt.6. Acta r nat Univ Com 7  
no.10:545-547 '63.

1. Katedra organickej chemie a biochemie, Univerzita Komenskeho,  
Bratislava, Smeralova 2.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001756130003-5

FURDIK, M.; DZURILLA, M.; TOMA, S.; SUCHY, J.

Ferrocene derivatives. Pt. 9. Acta r nat Univ Com 8 pt.10 no.?:  
569-579 '64.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001756130003-5"

FURDIK, Mikuláš, prof., Dr.; MIKOŠTÍKOVÁ, Mária, docent; DOURILĽA, Vilém, prof.  
chemistry; SUKÝT, Ján, Ph.D. • • •

Ferroocene derivatives. Project. Chem. vestn. 19 no. 8, 1971, p. 164.

1. Chair of Organic Chemistry and Biochemistry, Faculty of Natural  
Sciences, Comenius University, Bratislava, Fačulta ľ. (for Furdič,  
Toma and Dourilľa). 2. Institute of Chemistry, Slovak Academy of  
Sciences, Bratislava, Fakulta ľ. (for Sukýt).

1 33234-66 EXP(1) RM  
ACC NR: AP6023842

SOURCE CODE: CZ/0043/65/000/009/0703/0710

AUTHOR: Toma, Stefan--Toma, Sh. (Graduate chemist; Bratislava)

37  
B

ORG: Department of Organic Chemistry and Biochemistry, Faculty of Natural Sciences,  
Comenius University, Bratislava (Katedra organickej chemie a biochemie Prirodovedeckej fakulty Univerzity Komenskeho)

TITLE: Derivatives of ferrocenes. 7 (XII). Ferrocene analogues of chalcones

SOURCE: Chemische zvesti, no. 9, 1965, 703-710

TOPIC TAGS: ferrocene, condensation reaction, aromatic aldehyde, polarography, substituent

ABSTRACT: Aldol condensations of acetylferrocene and 1-acetyl-1'-benzoylferrocenes with various aromatic aldehydes were investigated. 1-acetyl-1'-benzoylferrocene is more active than 1-acetyl-ferrocene. The ferrocene analogues of chalcones obtained in this manner were studied by means of polarography. The semiwave potentials of chalcones prepared in this manner do not depend on the nature of the substituent. The author thanks Graduate chemist E. Gou, Department of Analytical Chemistry, PFUK, for measuring the semiwave potentials. Further thanks is extended to G. Blockinger, J. Grnakova and D. Stefkova, Laboratory of Chemistry, PFUK, for performing the analysis. Orig. art. has: 1 figure and 3 tables. [JPRS]

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Card 1/1 ULR 0915 1591

TOMA STRASER

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Damaging words in general internal practice. Med. vñsn. 11 no.4:  
155-158 Apr 57.

1. Verha nociva u Opstej internistickoj prakcij.  
(PHYSICIANS  
harmful eff. of communicated diag. to patients (Ser))  
(PATIENTS, psychol.  
same)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001756130003-5

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Instruments and Equipment

RUMANIA

BANDILA, T., Lieutenant-Colonel, Medical Corps; CAFRITA, A., Major, Medical Corps; TOMA, T., Captain, Medical Corps; and SURDULESCU, St., Lieutenant-Major, Medical Corps.

"Reanimation During the Time of Transportation"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 77-81

**Abstract:** Detailed description of internal devices and apparatus in the Rumanian Army Ambulance T.V.S.5 and their use in reanimation; experience based on 11 severely wounded patients transported in it between 100 to 250 kilometers each over the past two years, with duration of driving from 2 to 7½ hours; details of procedure which is claimed to be most effective to save comatose patients. 3 photographs of interior of ambulance.

TOMA, Victor

Astable multivibrator controlled by impulse. Probleme  
automatiz 191-192 5 N '62.